

torted and variously coloured, the limb very bright orange or red or white, and the claw yellow and bearded within. The stamens and other parts of the flower were of the usual form and number. On some spikes a few of the flowers were only slit to the base along the centre of the upper side, somewhat like the flowers of the genus *Lobelia*; and in another spike, some of the flowers had the upper and lateral lobe of each side united, the slits being between the two upper and on each side of the lower central lobes. The white variety of the plant offered the same modifications.—J. E. GRAY.

Notice of the Horns and Skull of the Arnee.

By Dr. J. E. GRAY, F.R.S., P.B.S., V.P.Z.S. &c.

Colonel James Matthie has lately presented to the British Museum the skull and horns of an Arnee or Buffalo, killed by him near Fezpoor, Central Assam, on the 8th of April, 1842.

The horns are of a very large size, as proved by the accompanying measurement, being nearly as large as the separate horns without a skull, in the British Museum, which formerly formed part of Sir Hans Sloane's Collections, and were described and figured by him in the Philosophical Transactions for 1727, no. 397, p. 222, f. 23. These horns are 78 inches, or 6 feet 6 inches long.

The dimensions of Colonel Matthie's specimen are as follows, according to his measurement.

	ft.	in.
"Length of the skull from occiput to nose	2	4
Length of the horns round the outside of them and across the forehead	12	2
Length of line from tip to tip of the horns	6	8
Circumference of right horn at base	1	8½
" " left horn at base	1	8
Width across the forehead	0	11

"The horns do not exactly correspond in length and shape."

The occipital portion of the skull is very much developed, to give enlarged attachment to the muscles of the neck for the support of the horns.

I may observe, that the Arnee of Anderson, *Bee*, 1792 (the *Bos arne* of Kerr, 'Animal Kingdom,' 336. t. 295, copied into 'Shaw, Zoology,' iv. p. 400, t. 210), is only a large horned variety of the common Buffalo, with horns nearly regularly curved from the base. The horns presented by Colonel Matthie, on the other hand, are nearly straight for great part of their length, and only curved at the end. In this respect they agree with the horns in the British Museum, which Mr. Doyle, whose name is "given to a sort of stuffe worn in summer," discovered in a cellar in Wapping, and which he gave to Sir Hans Sloane for his kindness in attending him in sickness. These are described by the latter in the 'Philosophical Transactions' for 1727, no. 397, p. 222. f. 23; and re-described and figured by

Colonel Hamilton Smith as those of Bos Arnee in *Griffith, A. K.* iv. t. 201. f. 2, 3.

Dr. Hook read a lecture on Mr. Doyle's horns at Gresham College, and thought they were probably those of the *Sukotyro* or *Sucotaria*, described by Nieuhoff in his 'Voyages and Travels in the East' as found in Java. He compares the horns to the tusk of the elephant, which they somewhat resemble. Dr. Shaw thought otherwise, and formed a genus for Nieuhoff's animal, making a figure of it from his description (see *General Zool.* i. 226. t. 65). Illiger considered it more probably a *Babyrusa*. See *Illiger, Genera Mam.* 100.—*Proc. Zool. Soc.* Jan. 23, 1855.

METEOROLOGICAL OBSERVATIONS FOR JULY 1855.

Chiswick.—July 1. Very fine. 2. Heavy clouds: slight rain. 3, 4. Very fine. 5. Clear: hot and dry. 6. Foggy: very fine. 7, 8. Very fine. 9. Hazy: very fine: thunder, lightning and rain at night. 10. Fine: cloudy: very fine. 11. Constant and very heavy rain from early in the morning till night. 12, 13. Very fine. 14. Cloudy: very fine. 15. Cloudy and fine: rain. 16. Cloudy: heavy rain at night. 17. Fine: cloudy. 18. Very fine. 19. Rain. 20. Very fine. 21. Exceedingly fine. 22. Very fine. 23. Slight fog: sultry: rain. 24. Rain: cloudy. 25. Rain. 26. Densely overcast: constant and very heavy rain. 27. Overcast: heavy clouds and showers. 28. Cloudy: heavy showers. 29. Very fine. 30. Slight haze: very fine: overcast: rain at night. 31. Heavy rain: showery: clear and fine at night.

Mean temperature of the month	62°·99
Mean temperature of July 1854	61·59
Mean temperature of July for the last twenty-nine years ...	63·12
Average amount of rain in July	2·428 inches.

Boston.—July 1—4. Fine. 5—7. Cloudy. 8. Fine. 9. Cloudy. 10, 11. Cloudy: rain A.M. 12. Fine. 13. Cloudy. 14. Rain and hail A.M. 15. Fine. 16, 17. Cloudy: rain A.M. and P.M. 18. Cloudy. 19, 20. Cloudy: rain, with thunder A.M. and P.M. 21—23. Cloudy. 24, 25. Rain A.M. and P.M. 26. Fine: rain P.M. 27. Cloudy: rain P.M. 28. Fine: rain P.M. 29, 30. Fine. 31. Rain A.M. and P.M.

Sandwich Manse, Orkney.—July 1. Damp A.M.: showers P.M. 2. Showers A.M.: drops P.M. 3. Rain A.M.: damp P.M. 4. Bright A.M.: cloudy P.M. 5. Cloudy A.M.: fog P.M. 6. Bright, fine A.M.: clear, fine P.M. 7. Bright, fine A.M. and P.M. 8. Bright, fine A.M.: clear, fine P.M. 9. Clear, fine A.M.: vapour, fine P.M. 10. Hazy A.M.: clear, fine P.M. 11. Fine A.M. and P.M. 12. Bright, fine A.M.: fine, fog P.M. 13. Fog A.M.: fine, fog P.M. 14. Fog A.M.: thunder showers, fog P.M. 15. Fog A.M.: showers P.M. 16. Rain A.M.: showers P.M. 17. Damp A.M.: cloudy P.M. 18. Cloudy A.M. and P.M. 19. Bright A.M.: hazy, fine P.M. 20. Bright A.M.: clear, fine P.M. 21. Clear A.M.: drops P.M. 22. Cloudy A.M. and P.M. 23. Cloudy A.M.: showers P.M. 24. Bright A.M.: fine, fog P.M. 25. Cloudy A.M.: fine, fog P.M. 26. Rain A.M.: fog P.M. 27. Rain, fog A.M.: showers, thunder and lightning, clear P.M. 28. Bright A.M.: fine, drops P.M. 29. Rain A.M.: damp P.M. 30. Cloudy A.M.: fine, vapour P.M. 31. Cloudy A.M.: fine P.M.

Mean temperature of July for twenty-eight previous years .	55°·08
Mean temperature of this month	59·19
Mean temperature of July 1854	55·25
Average quantity of rain in July for fifteen previous years...	2·41 inches.